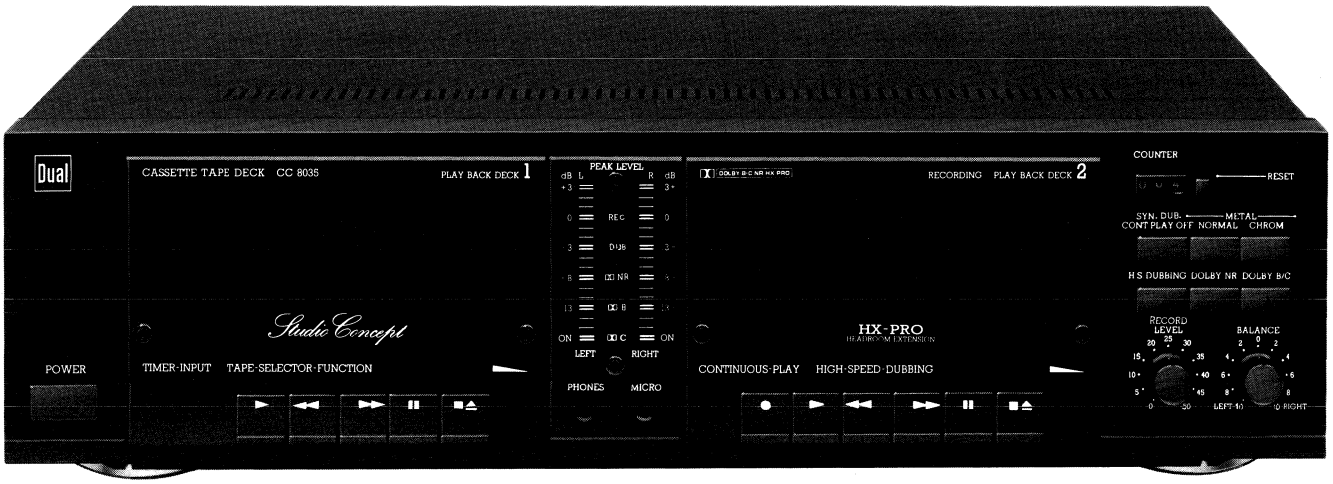
# Service-Anleitung
# Service Manual
# Instructions de Service

# CC 8035




| **Technische Daten**<br>(typische Werte) | **Specifications**<br>(typical values) | **Caractéristiques techniques**<br>(valeurs types) | **Dati tecnici**<br>(valori tipici) | **Dual CC 8035** |
|---|---|---|---|---|
| **Bandgeschwindigkeit** | **Tape speed** | **Vitesse de bande** | **Velocità del nastro** | 4,75 cm/sec. |
| **Tonhöhenschwankungen**<br>W.R.M.S.<br>DIN-Aufnahme/Wiedergabe | **Wow and flutter**<br>W.R.M.S.<br>DIN record/playback | **Variations de tonalité**<br>W.R.M.S.<br>Enregistrement/lecture DIN | **Fluttuazioni nell'altezza del tono**<br>W.R.M.S.<br>secondo DIN registrazione/ riproduzione | <br>± 0,08 %<br>± 0,12 % |
| **Übertragungsbereich**<br>(bezogen auf DIN-Toleranzfeld)<br><br>Fe-Band<br>$CrO_2$-Band<br>Reineisenband | **Frequency response**<br>(referred to DIN tolerance)<br><br>Fe tape<br>$CrO_2$ tape<br>Metal tape | **Plage de transmission**<br>(par rapport à la zone de tolérance DIN)<br><br>Bande Fe<br>Bande $CrO_2$<br>Bande fer pur | **Banda di frequenza**<br>(relativo al campo di tolleranza DIN)<br><br>nastro Fe<br>nastro $CrO_2$<br>nastro ferro puro | <br><br>25–15000 Hz<br>25–16000 Hz<br>25–16000 Hz |
| **Ruhegeräusch Spannungsabstand**<br>mit Dolby NR<br>Fe-Band<br>$CrO_2$-Band<br>Reineisenband | **Signal/noise ratio**<br><br>with Dolby NR<br>Fe tape<br>$CrO_2$ tape<br>Metal tape | **Rapport signal/bruit pondéré**<br><br>avec Dolby NR<br>Bande Fe<br>Bande $CrO_2$<br>Bande fer pur | **Rapporto segnale/disturbi**<br><br>con Dolby NR<br>nastro Fe<br>nastro $CrO_2$<br>nastro ferro puro | <br>B C<br>62 dB 69 dB<br>64 dB 71 dB<br>65 dB 72 dB |
| **Übersprechdämpfung**<br>(bei 1000 Hz)<br>zwischen zusammengehörigen Kanälen<br>zwischen Kanälen in Gegenrichtung | **Crosstalk attenuation**<br>(at 1000 Hz)<br>between stereo channels<br><br>in opposite direction | **Diaphonie**<br>(à 1000 Hz)<br>entre canaux homogènes<br><br>entre canaux opposés | **Diafonia**<br>(a 1000 Hz)<br>con l'altra traccia stereo<br><br>con la controtraccia | <br><br>40 dB<br><br>75 dB |
| **Umspulzeit**<br>(C 60-Cassetten) | **Rewind time**<br>(C 60 cassettes) | **Durée de bobinage**<br>(Cassettes C 60) | **Tempo di ribobinatura**<br>(per cassette C 60) | <br>100 sec. |
| **Netzspannung**<br>Model Europa<br>Model USA/Kanada | **Mains voltage**<br>European model<br>US/Canadian model | **Tension secteur**<br>Modèle Europe<br>Modèle USA/Canada | **Tensione di rete**<br>modello Europa<br>model Stati Uniti/Canada | <br>230 V/50 Hz<br>120 V/60 Hz |
| **Maße**<br>(Breite × Höhe × Tiefe | **Dimensions**<br>(width × height × depth) | **Dimensions**<br>(largeur × hauteur × profondeur) | **Dimensioni**<br>(larghezza × altezza × profondità) | <br>440 × 122 × 245 mm |

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921 634 0991

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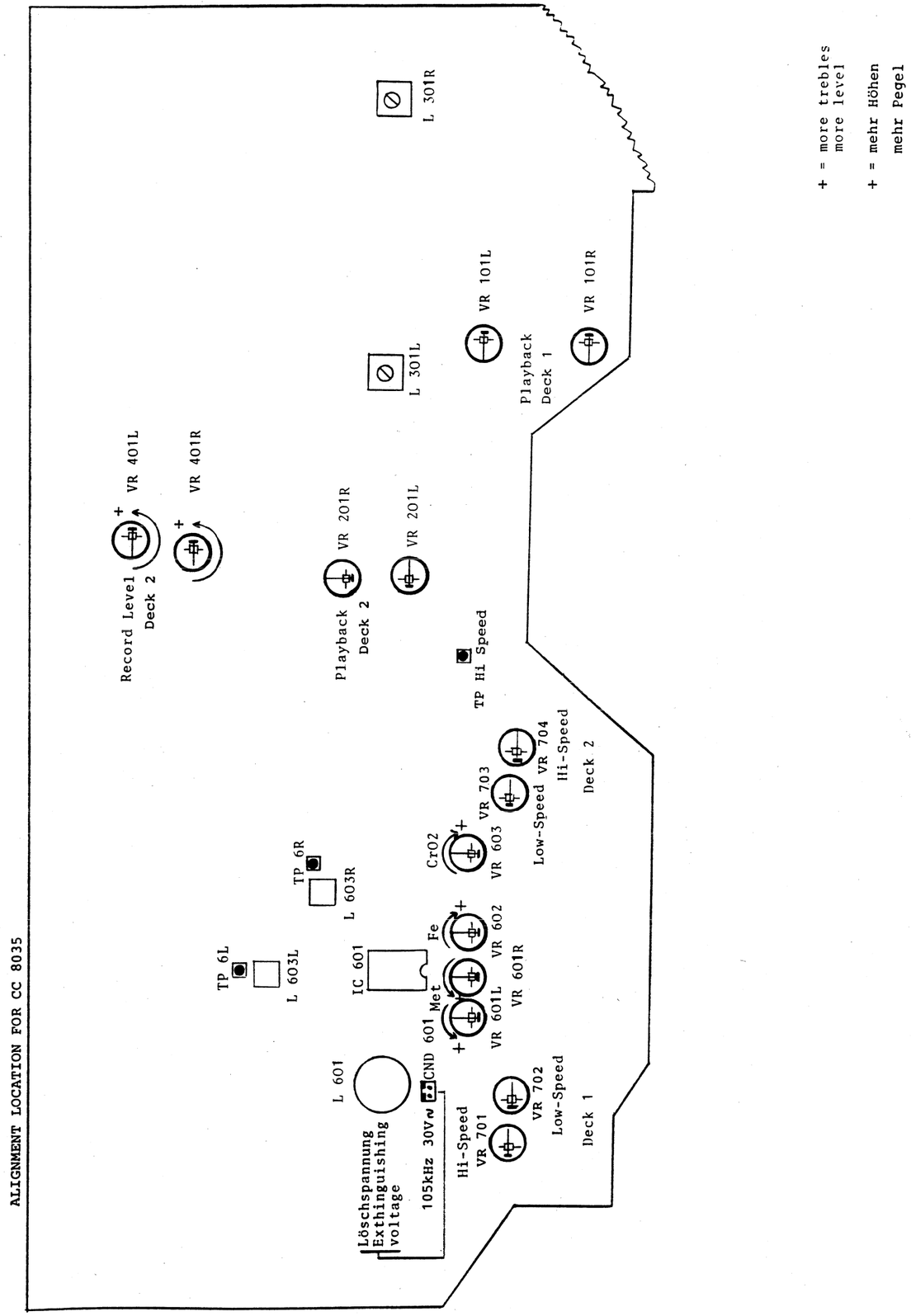
# Abgleichanleitung CC 8035

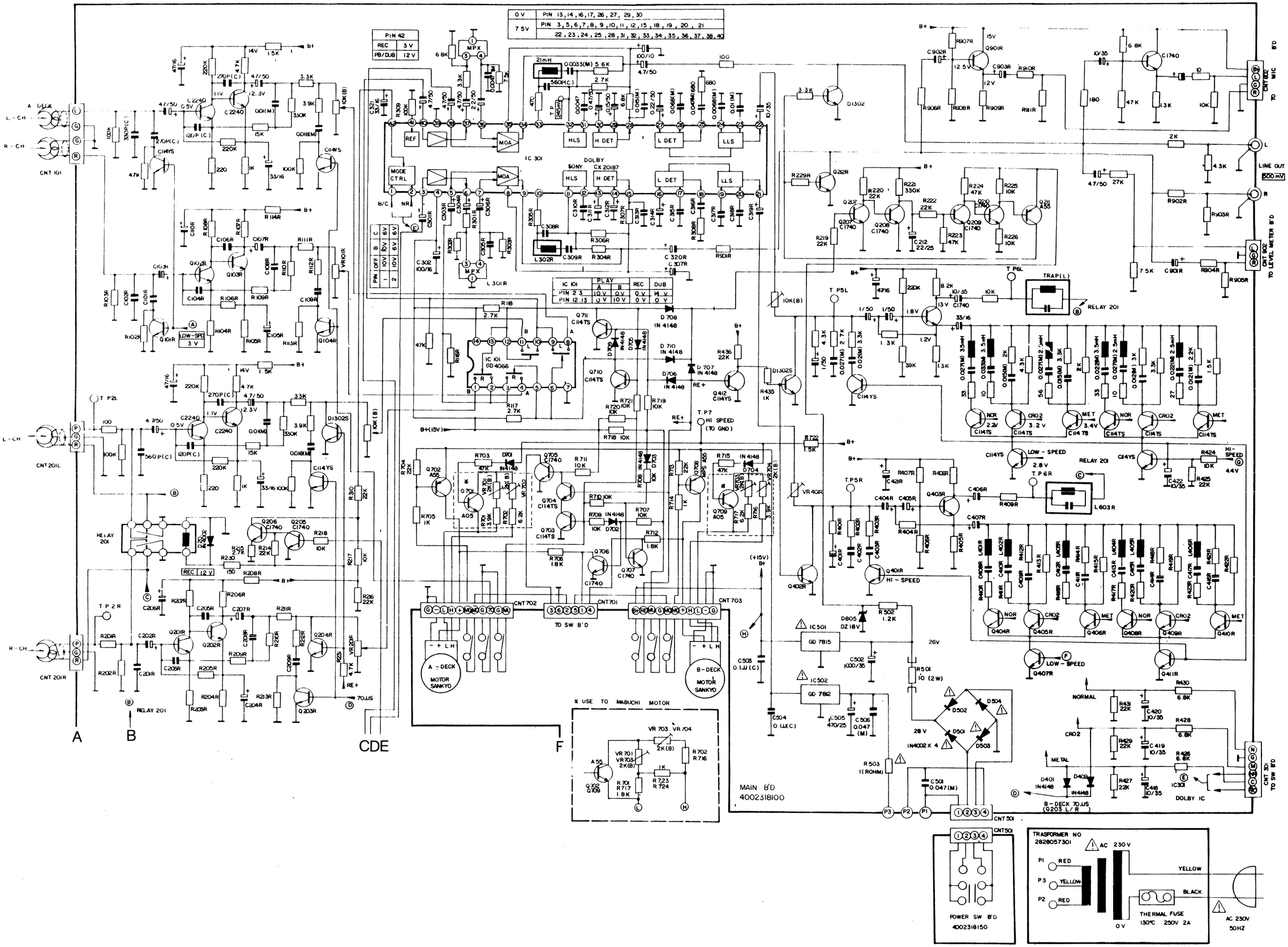
| Signalquelle | Einstellung Gerät | Einstellung Signalquelle | Anzeigegerät Anschluß | Abgleichposition | Abgleich, Bemerkung |
|---|---|---|---|---|---|
| **1) Azimut** Deck 1+2 | | | Cassettenschachtdeckel nach oben abziehen | | |
| Meßcassette | Dolby: OFF<br>Normal: ON | 10 kHz | NF-Voltmeter<br>an OUTPUT | Azimutschraube<br>links neben<br>dem Kopf | Maximum<br>mit Lack sichern |
| **2) Bandgeschwindigkeit** Deck 1+2 | | | Achtung: Low Speed zuerst einstellen. | | |
| Meßcassette | Normal: ON | 3150 Hz | Frequenzzähler<br>an OUTPUT | Deck 1 VR 702<br>Deck 2 VR 703 | 3150 Hz |
| | | | | Deck 1 VR 701<br>Deck 2 VR 704 | TP Hi Speed an Masse 4750 Hz |
| **3) Wiedergabepegel** Deck 1+2 | | | | | |
| Meßcassette<br>Dolby-Pegel | Normal: ON<br>Dolby: OFF | 400 Hz | NF-Voltmeter<br>an OUTPUT | Deck 1 VR 101 L<br>VR 101 R | 500 mV |
| | | | | Deck 2 VR 201 L<br>VR 201 R | |
| **4) Aufnahmepegel** Deck 2 | | | | | |
| NF-Generator<br>an INPUT<br>links/rechts | Dolby: OFF<br>Record: ON<br>Metal: ON<br>Metal Tape | 400 Hz<br>ca. 80 mV | NF-Voltmeter<br>an OUTPUT | Record Levelsteller<br>Maximum | 500 mV |
| | | | | VR 401 L/R | 500 mV bei Play |
| **5) HF-Vormagnetisierung** | | | | | |
| NF-Generator<br>an INPUT<br>links/rechts | Dolby: OFF<br>Record: ON<br>Metal Tape | 10 kHz<br>ca. 80 mV<br>– 2 dB | NF-Voltmeter<br>an OUTPUT | Rec. Levelst. Max. | 50 mV |
| | | | | (Grundeinstellung)<br>VR 601 L/R | 50 mV bei Play |
| | $CrO_2$ Tape<br>Fe Tape | | | VR 603<br>VR 602 | 50 mV bei Play |
| Nach dem Einstellen von Punkt 5 ist nochmals Punkt 4 zu überprüfen.<br>Bei Abweichungen (über 1 dB) ist der Abgleich 4+5 nochmals zu wiederholen. | | | | | |
| **6) HF-Oszillator** | | | | | |
| Metal<br>Cassette | Record: ON<br>Metal: ON | | Frequenzzähler<br>an CND 601 | L 601 | ca. 105 kHz |
| **7) HF-Sperrkreis** | | | | | |
| Metal Cassette | Record: ON<br>Metal: ON | | NF-Voltmeter<br>an TP 6 L/R | L 603 L/R | Minimum |
| **8) 19 kHz Pilot-Signal-Filter** | | | | | |
| NF-Generator<br>an INPUT | Record: ON<br>Metal: ON | 19 kHz<br>ca. 80 mV | NF-Voltmeter<br>an OUTPUT | L 301 L/R | Minimum |
| **9) HX-Pro-Spule** | | | | | |
| | Record: ON | | NF-Voltmeter an<br>IC 601 Pin 6+13 | L 602 L/R | Minimum |

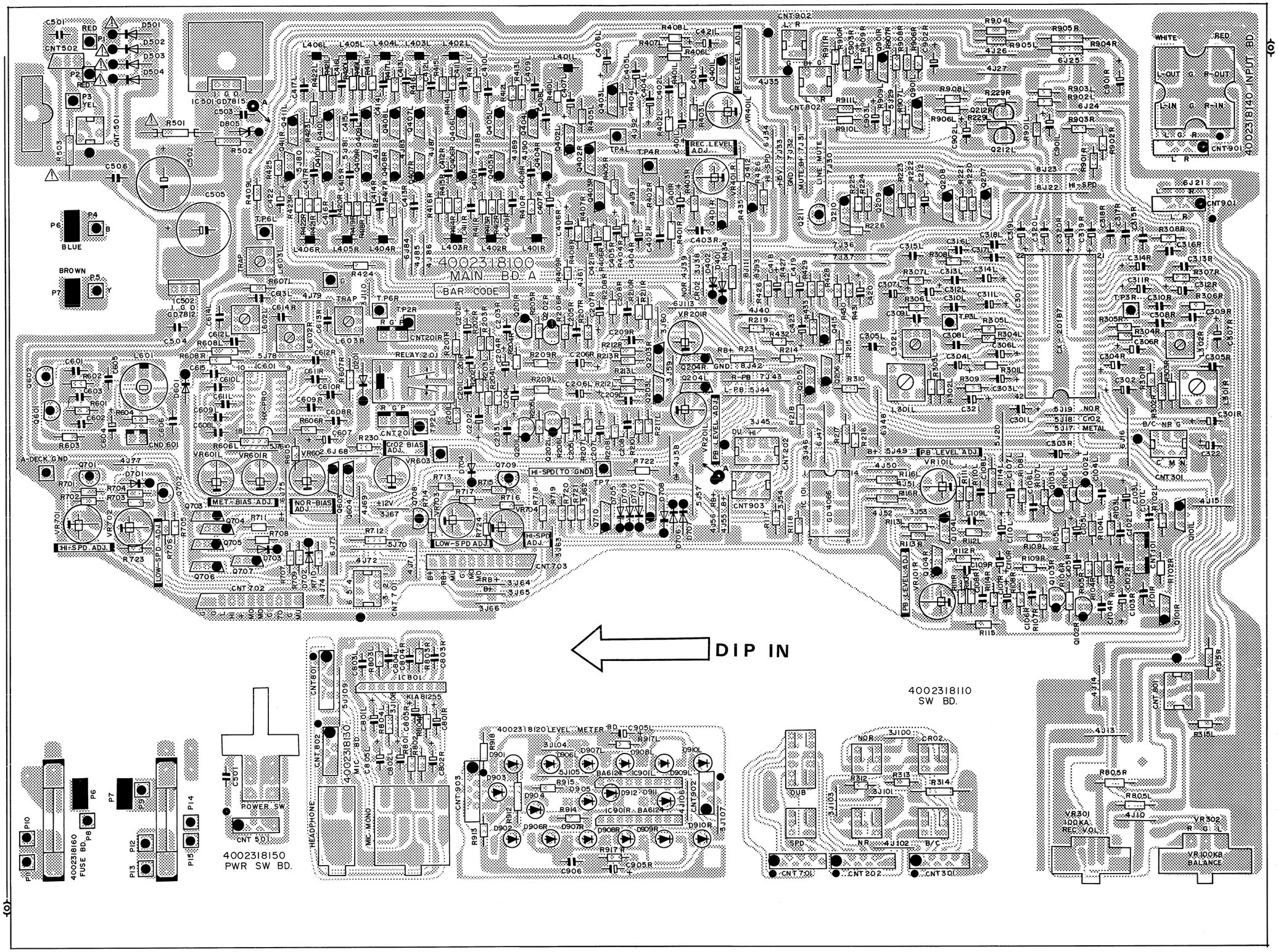
## Tuning Instructions for CC 8035

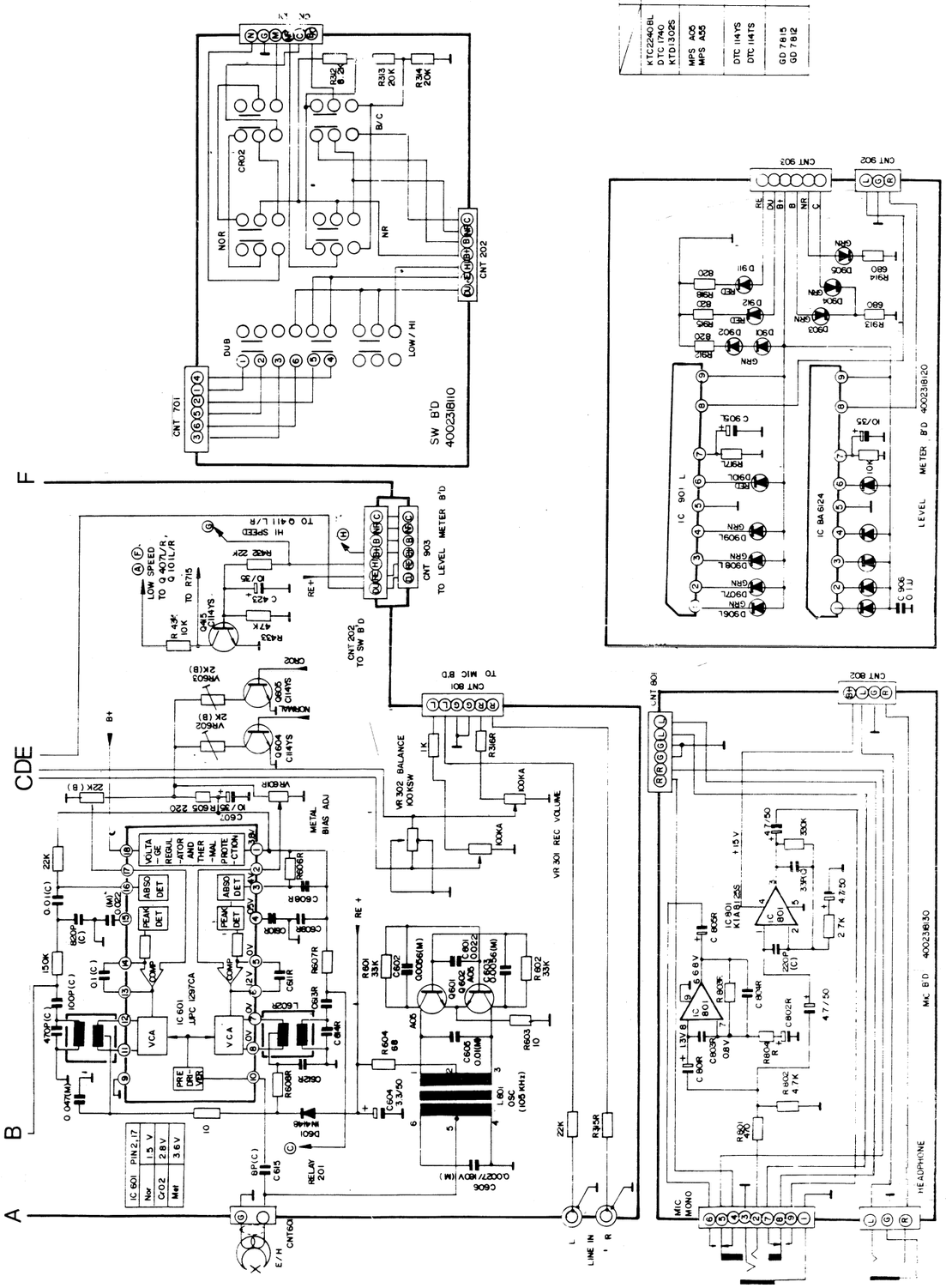
| Signal source | Equipment setting | Signal source setting | Connection of measuring instrument | Item to be tuned | Tuning, Remarks |
|---|---|---|---|---|---|
| **1) Azimuth** deck 1+2 | | | lift of cover over cassette slot | | |
| Test cassette | Dolby: OFF<br>Normal: ON | 10 kHz | AF voltmeter<br>to OUTPUT | Azimuth screw<br>to left of the head | Use laquer to fix at maximum |
| **2) Tape speed** deck 1+2 | | | Attention: Adjust low speed first. | | |
| Test cassette | Normal: ON | 3150 Hz | Frequency counter<br>to OUTPUT | deck 1 VR 702<br>deck 2 VR 703 | 3150 Hz |
| | | | | deck 1 VR 701<br>deck 2 VR 704 | TP Hi Speed to Earth 4750 Hz |
| **3) Playback level** deck 1+2 | | | | | |
| Test cassette<br>Dolby-level | Normal: ON<br>Dolby: OFF | 400 Hz | AF voltmeter<br>to OUTPUT | deck 1 VR 101 L<br>VR 101 R | 500 mV |
| | | | | deck 2 VR 201 L<br>VR 201 R | |
| **4) Recording level** deck 2 | | | | | |
| AF generator<br>to INPUT<br>left/right | Dolby: OFF<br>Record: ON<br>Metal: ON<br>Metal Tape | 400 Hz<br>approx. 80 mV | AF voltmeter<br>to OUTPUT | Record level<br>control max. | 500 mV |
| | | | | VR 401 L/R | 500 mV (during play) |
| **5) RF premagnetization** | | | | | |
| AF generator<br>to INPUT<br>left/right | Dolby: OFF<br>Record: ON<br>Metal Tape | 10 kHz<br>approx. 80 mV<br>– 2 dB | AF voltmeter<br>to OUTPUT | Record level<br>control max. | 50 mV |
| | $CrO_2$ Tape<br>Fe Tape | | | basic setting<br>VR 601 L/R | 50 mV (during play) |
| | | | | VR 603<br>VR 602 | 50 mV (during play) |
| Check the recording level again after setting the premagnetization.<br>If it deviates (by more than 1 dB), repeat tuning, recording level and RF premagnetization. | | | | | |
| **6) RF oscillator** | | | | | |
| Metal<br>Cassette | Record: ON<br>Metal: ON | | Frequency counter<br>to CND 601 | L 601 | approx. 105 kHz |
| **7) RF trap** | | | | | |
| Metal<br>Cassette | Record: ON<br>Metal: ON | | AF voltmeter<br>to TP 6 L/R | L 603 L/R | Minimum |
| **8) 19 kHz pilot-signal filter** | | | | | |
| AF generator<br>to INPUT | Record: ON<br>Metal: ON | 19 kHz<br>approx. 80 mV | AF voltmeter<br>to OUTPUT | L 301 L/R | Minimum |
| **9) HX-Pro coil** | | | | | |
| | Record: ON | | AF voltmeter to<br>IC 601 Pin 6+13 | L 602 L/R | Minimum |



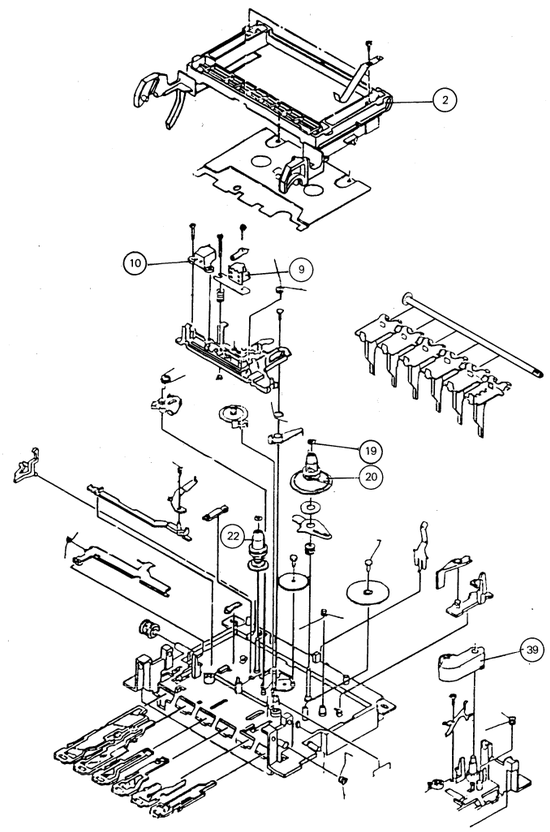



PIN 42
REC 3 V
PB/DUB 12 V
0 V PIN 13,14,16,17,26,27,29,30
7.5 V PIN 3,5,6,7,8,9,10,11,12,15,18,19,20,21 22,23,24,25,28,31,32,33,34,35,36,37,38,40
A DECK
L-CH
R-CH
CNT 101
CNT 201L
CNT 201R
IC 301
DOLBY SONY CX 20187
MODE CTRL
REF
MOA
HLS
H DET
L DET
LLS
B/C
NR
L 301R
L302R
IC 101 GD 4066
PLAY REC DUB
IC 101 PIN 2,3 A B
IC 101 PIN 12,13
Q711 C114TS
Q710 C114TS
Q412 C114YS
D708 IN 4148
D710 IN 4148
D707 IN 4148
D706 IN 4148
D705 IN4148
D704 IN4148
D702 IN4148
D701 IN4148
RE+
T.P7 HI SPEED (TO GND)
B+(15V)
Q702 A55
Q701 A05
Q704 C114TS
Q703 C114TS
Q705 C1740
Q706 C1740
Q707 C1740
Q708 A55
Q709 A05
CNT 702
CNT 701
CNT 703
TO SW B'D
A - DECK MOTOR SANKYO
B - DECK MOTOR SANKYO
* USE TO MABUCHI MOTOR
VR 703 VR 704
VR 701 VR 702
MAIN B'D 4002318100
CNT 501
POWER SW B'D 4002318150
TRASFORMER NO 282805730I
AC 230V
PI RED
P3 YELLOW
P2 RED
YELLOW
BLACK
THERMAL FUSE 130°C 250V 2A
0 V
AC 230V 50HZ
IC 501 GD 7815
IC 502 GD 7812
26V
28 V
IN4002 X 4
D501 D502 D503 D504
D805 DZ 18V
R502 1.2K
R501 10 (2W)
C501 0.047 (M)
C502 1000/35
C503 0.1 (J) (C)
C504 0.1 (J) (C)
C505 470/25
C506 0.047 (M)
TO MIC B'D
CNT 802
TO LEVEL METER B'D
LINE OUT 550 mV
L
R
TRAP(L)
RELAY 201
LOW-SPEED 3 V
LOW - SPEED 2.8 V
HI-SPEED 4.4 V
HI - SPEED
LOW - SPEED
NOR
CRO2
MET
METAL
NORMAL
DOLBY IC
TO SW B'D
CNT 301
B - DECK 7D JS (Q203 L/R)
A
B
CDE
F


4002318100
MAIN BD A
BAR CODE
4002318110
SW BD.
4002318120 LEVEL METER BD.
4002318130
MIC BD
4002318150
PWR SW BD.
4002318160
FUSE BD
DIP IN
POWER SW
HEADPHONE
MIC-MONO
REC LEVEL ADJ.
PB LEVEL ADJ.
HI-SPD ADJ.
LOW-SPD ADJ.
MET+BIAS ADJ.
NOR BIAS ADJ.
CR02 BIAS ADJ.
VR301 100KA REC VOL
VR302 100KB BALANCE
4002318140 INPUT BD


BOTTOM VIEW
KTC2240BL
DTC1740
KTD1302PS
MPS A05
MPS A55
DTC114YS
DTC114TS
GD7815
GD7812
IN GND OUT
SW B'D
400231810
CNT 701
CNT 202
CRO2
NOR
NR
DUB
LOW / HI
R312 8.2K
R313 20K
R314 20K
B/C
LEVEL METER B'D
400231820
CNT 902
IC BA6124
IC 901 L
TO LEVEL METER B'D
CNT 903
TO Q411 L/R
HI SPEED
LOW SPEED TO Q407L/R, Q101L/R
TO R715
CNT 202 TO SW B'D
TO MIC B'D
CNT 801
CNT 802
MIC B'D
400231830
IC 601 PIN2,17
Nor 1.5 V
CrO2 2.8 V
Met 3.6 V
IC 601 JUPC 2597CA
VCA
PRE AMP-LIFIER
VOLTA-GE REGUL-ATOR AND TIMER PULSE GENER-ATION
ABSO DET
PEAK DET
COMP
METAL BIAS ADJ
VR 302 BALANCE 100KSW
VR 301 REC VOLUME
100KA
1K
R396R
RELAY 201
E/H
CNT601
LINE IN
MIC MONO
HEADPHONE
OSC (105 KHz)
A
B
CDE
F

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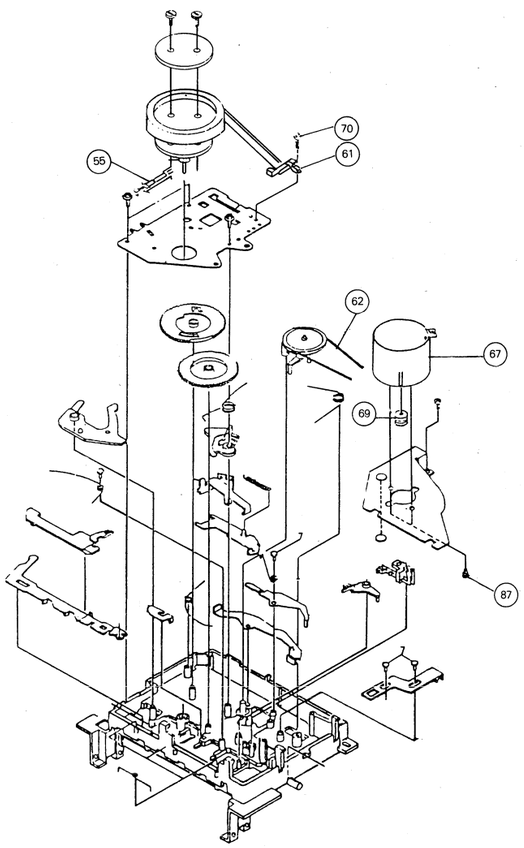
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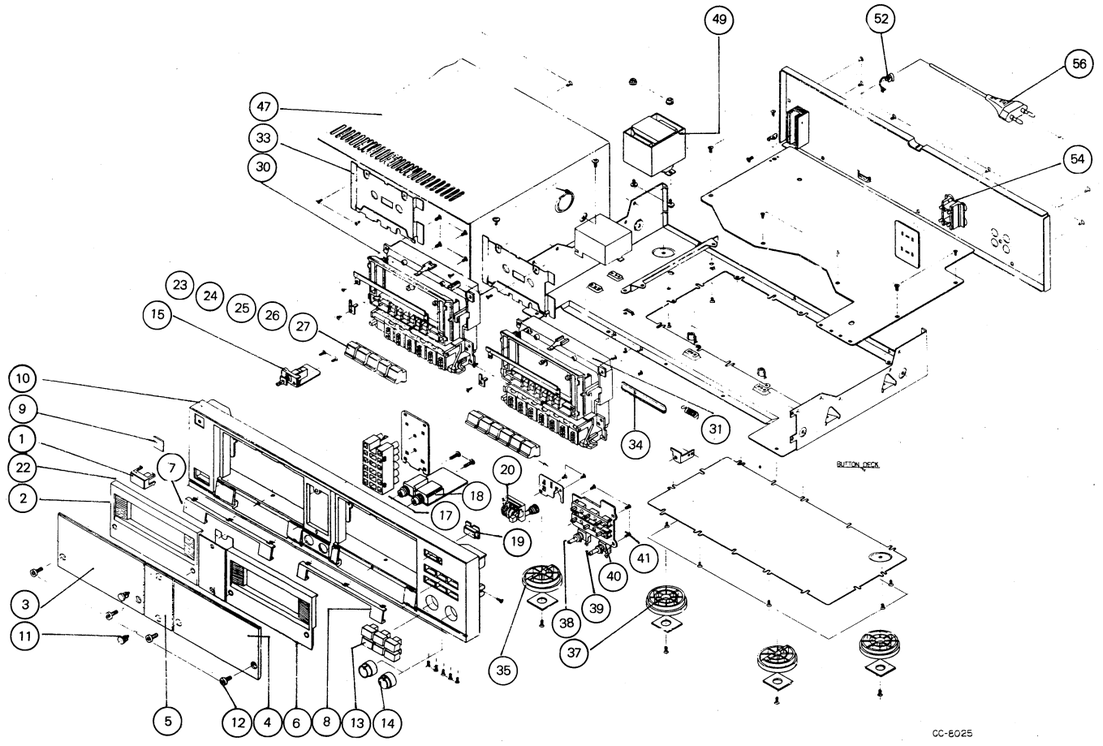
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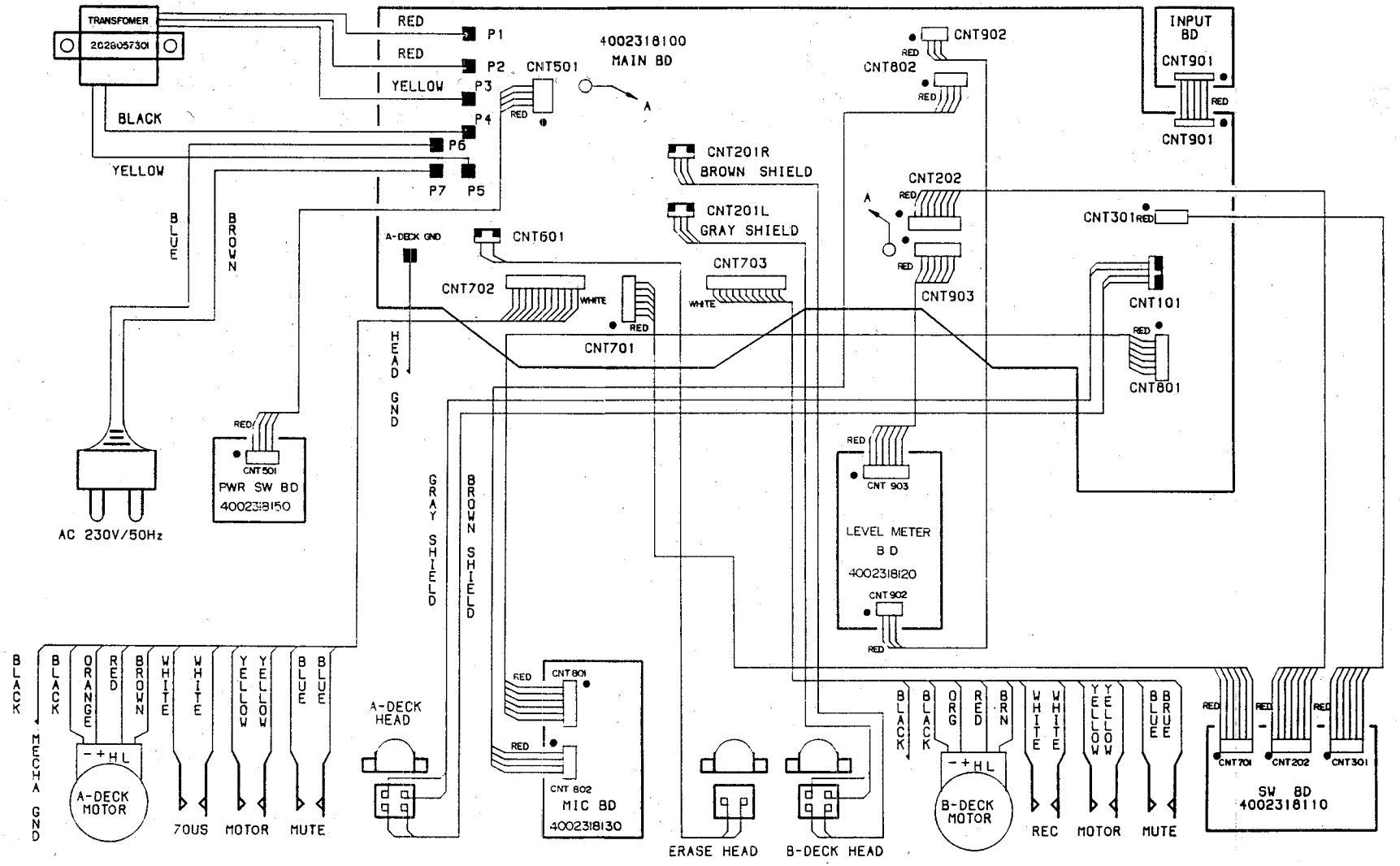
35
BUTTON DECK
CC-8025

## Ersatzteile · Replacement parts · Pièces détachées · CC 8035

| Pos. | Art.-Nr. | Bezeichnung |
|---|---|---|
| 1 | 283665 | Powertaste |
| 2 | 284665 | Cassettenblende |
| 3 | 286926 | Fenster A |
| 4 | 286927 | Fenster B |
| 5 | 284347 | Fenster |
| 6 | 284346 | Anzeigeplatte |
| 7 | 283683 | Abdeckung A |
| 8 | 283684 | Abdeckung B |
| 9 | 283750 | Dual-Zeichen |
| 10 | 286928 | Frontblende |
| 11 | 284855 | Halter |
| 12 | 284773 | Schraube |
| 13 | 283686 | Taste |
| 14 | 283661 | Drehknopf |
| 15 | 283701 | Schalter |
| 17 | 283705 | Kopfhörerbuchse |
| 18 | 283704 | Mic-Buchse |
| 19 | 284348 | Zähler Fenster |
| 20 | 283687 | Zähler |
| 22 | 283682 | Dämpfungsfolie |
| 23 | 283690 | Taste (Play) |
| 24 | 283691 | Taste (Rew) |
| 25 | 283692 | Taste (FF) |
| 26 | 283694 | Taste (Eject/Stop) |
| 27 | 283693 | Taste (FF) |
| 28 | 283695 | Taste (Rec) |
| 30 | 283688 | Mechanik 1 |
| 31 | 283689 | Mechanik 2 |
| 33 | 284856 | Abdeckung |
| 34 | 284857 | Riemen |
| 35 | 283681 | Gerätefuß |
| 37 | 283710 | Gerätefuß |
| 38 | 284349 | Steller 100 K × 2 |
| 39 | 283698 | Steller 100 K |
| 40 | 283702 | Schalter 3-fach |
| 41 | 283703 | Schalter 3-fach |
| 49 | 283685 | Netztrafo |
| 56 | 232996 | Netzkabel |
| | | **Mechanik** |
| 2 | 282478 | Cassettenschacht |
| 9 | 282479 | AW-Kopf |
| 10 | 282480 | Lösch-Kopf |
| 19 | 284861 | Scheibe |
| 20 | 284862 | Mitnehmer |
| 21 | 282483 | Mitnehmer |
| 39 | 284864 | Andruckrolle |
| 55 | 282486 | Schalter |
| 55 | 282487 | Schalter |
| 61 | 284867 | Schalter |
| 61 | 282489 | Schalter |
| 62 | 284869 | Riemen |
| 67 | 282494 | Motor |
| 69 | 284870 | Andruckrolle |
| 70 | 282498 | Riemen |
| 78 | 284872 | Schalter |
| 87 | 284873 | Schalter |
| | | **Grundplatte** |
| L 301 | 287563 | Spule |
| L 302 | 282367 | Spule 21 MH |
| L 401 | 282217 | Spule 3,5 MH |
| L 402 | 282217 | Spule 3,5 MH |
| L 403 | 282501 | Spule 2,5 MH |
| L 404 | 282217 | Spule 3,5 MH |
| L 405 | 282501 | Spule 2,5 MH |
| L 406 | 282501 | Spule 2,5 MH |

| Pos. | Art.-Nr. | Bezeichnung |
|---|---|---|
| L 601 | 284851 | Spule MPX 105 kHz |
| L 602 | 286943 | Spule HX-PRO |
| D 201 | 226501 | Diode 1 N 4002 |
| D 401 | 223906 | Diode 1 N 4148 |
| D 402 | 223906 | Diode 1 N 4148 |
| D 501 | 226501 | Diode 1 N 4002 |
| bis | | |
| D 504 | 226501 | Diode 1 N 4002 |
| D 601 | 223906 | Diode 1 N 4148 |
| D 701 | 223906 | Diode 1 N 4148 |
| bis | | |
| D 710 | 223906 | Diode 1 N 4148 |
| D 805 | 282064 | Diode DZ 18 |
| IC 101 | 283697 | IC GD 4066 |
| IC 301 | 282360 | IC CX 20187 |
| IC 501 | 283679 | IC GD 7815 |
| IC 502 | 284588 | IC NJM 7812 |
| IC 601 | 284644 | IC UPC 1297 |
| Q 101 | 283699 | Transistor DTC 114 YS |
| Q 102 | 282052 | Transistor KTC 2240 BL |
| Q 103 | 282052 | Transistor KTC 2240 BL |
| Q 104 | 283699 | Transistor DTC 114 YS |
| Q 201 | 282052 | Transistor KTC 2240 BL |
| Q 202 | 282052 | Transistor KTC 2240 BL |
| Q 203 | 283699 | Transistor DTC 114 Y |
| Q 204 | 284787 | Transistor KTD 1302 |
| Q 205 | 269146 | Transistor 2 SC 1740 S |
| bis | | |
| Q 210 | 269146 | Transistor 2 SC 1740 S |
| Q 211 | 282060 | Transistor MPS A 55 |
| Q 212 | 284787 | Transistor KTD 1302 |
| Q 401 | 283699 | Transistor DTC 114 |
| Q 402 | 284787 | Transistor KTD 1302 |
| Q 403 | 269146 | Transistor 2 SC 1740 S |
| Q 404 | 283700 | Transistor DTC 114 TS |
| bis | | |
| Q 412 | 283700 | Transistor DTC 114 TS |
| Q 415 | 283700 | Transistor DTC 114 TS |
| Q 601 | 282059 | Transistor MPS A 05 |
| Q 602 | 282059 | Transistor MPS A 05 |
| Q 604 | 283700 | Transistor DTC 114 TS |
| Q 605 | 283700 | Transistor DTC 114 TS |
| Q 701 | 282059 | Transistor MPS A 05 |
| Q 702 | 282060 | Transistor MPS A 55 |
| Q 703 | 283700 | Transistor DTC 114 TS |
| Q 704 | 283700 | Transistor DTC 114 TS |
| Q 705 | 269146 | Transistor 2 SC 1740 S |
| bis | | |
| Q 707 | 269146 | Transistor 2 SC 1740 S |
| Q 708 | 282060 | Transistor MPS A 55 |
| Q 709 | 282059 | Transistor MPS A 05 |
| Q 710 | 283700 | Transistor DTC 114 TS |
| Q 711 | 283700 | Transistor DTC 114 TS |
| Q 901 | 269146 | Transistor 2 SC 1740 S |
| | | **Anzeigeplatte** |
| IC 901 | 282453 | IC BA 6124 |
| D 901 | 275454 | LED SLR 54 DC |
| bis | | |
| D 909 | 275454 | LED SLR 54 DC |
| D 910 | 282351 | LED SLR 54 URC 3 |
| bis | | |
| D 912 | 282351 | LED SLR 54 URC 3 |
| | | **MIC-Platte** |
| IC 801 | 283716 | IC KIA 8125 S |
| | 284974 | Bedienungsanleitung |

Änderungen vorbehalten! Subject to change! Sous réserve de modification!


TRANSFOMER
202805730I
RED
RED
YELLOW
BLACK
YELLOW
P1
P2
P3
P4
P6
P7
P5
4002318100
MAIN BD
CNT501
A
CNT902
CNT802
INPUT BD
CNT901
CNT201R
BROWN SHIELD
CNT201L
GRAY SHIELD
CNT202
CNT301
A-DECK GND
CNT601
CNT702
CNT703
WHITE
CNT701
CNT903
CNT101
CNT801
BLUE
BROWN
HEAD GND
GRAY SHIELD
BROWN SHIELD
AC 230V/50Hz
PWR SW BD
4002318150
CNT 903
LEVEL METER
B D
4002318120
CNT 902
A-DECK HEAD
CNT 802
MIC BD
4002318130
ERASE HEAD
B-DECK HEAD
B-DECK MOTOR
REC
MOTOR
MUTE
SW BD
4002318110
CNT701
CNT202
CNT301
MECHA GND
A-DECK MOTOR
70US
MOTOR
MUTE